



National Defense Center for Environmental Excellence



**DoD Executive Agent**

Office of the  
Assistant Secretary  
of the Army  
(Installations and  
Environment)

## TARDEC Ground Vehicle Power and Mobility Strategic Planning FY08

**Task N.0491**

**NDCEE Program Review**  
**June 2-3, 2008**

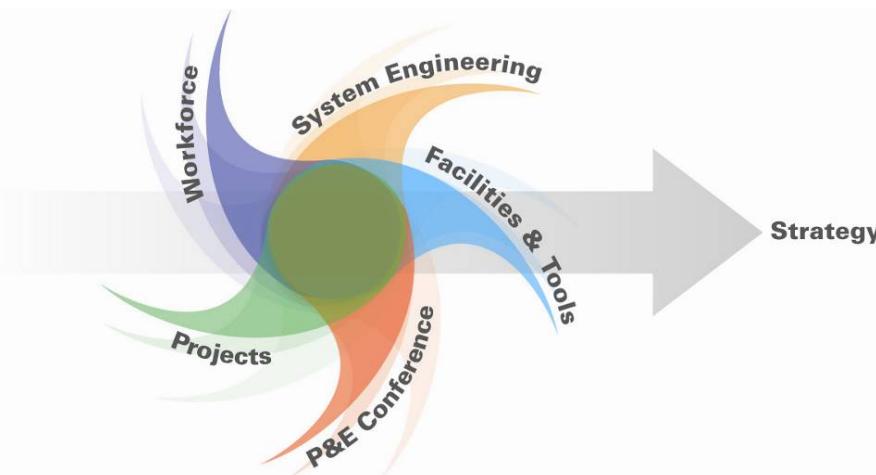
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# P&E Strategy Objectives

- n Develop an integrated strategy to meet the power and energy requirements of current and future modular force.
- n Allows science and technology investments to be prioritized and focused on products that can transition.
- n Allows program managers to plan and resource for technology insertion.
- n Allows the development of the required people, tools, and facilities.



# Project Background

- n Support the Tank-Automotive Research Development and Engineering Center (TARDEC) Power & Energy (P&E) Strategy Objectives.
- n Provide a framework and formalized process for strategic planning.
  - Conduct initially at the Directorate level and transition to the broader TARDEC level.
  - Create a management tool to provide an actionable plan with focused P&E technology development efforts.
  - Assess and adjust the organization's direction in response to a changing environment.

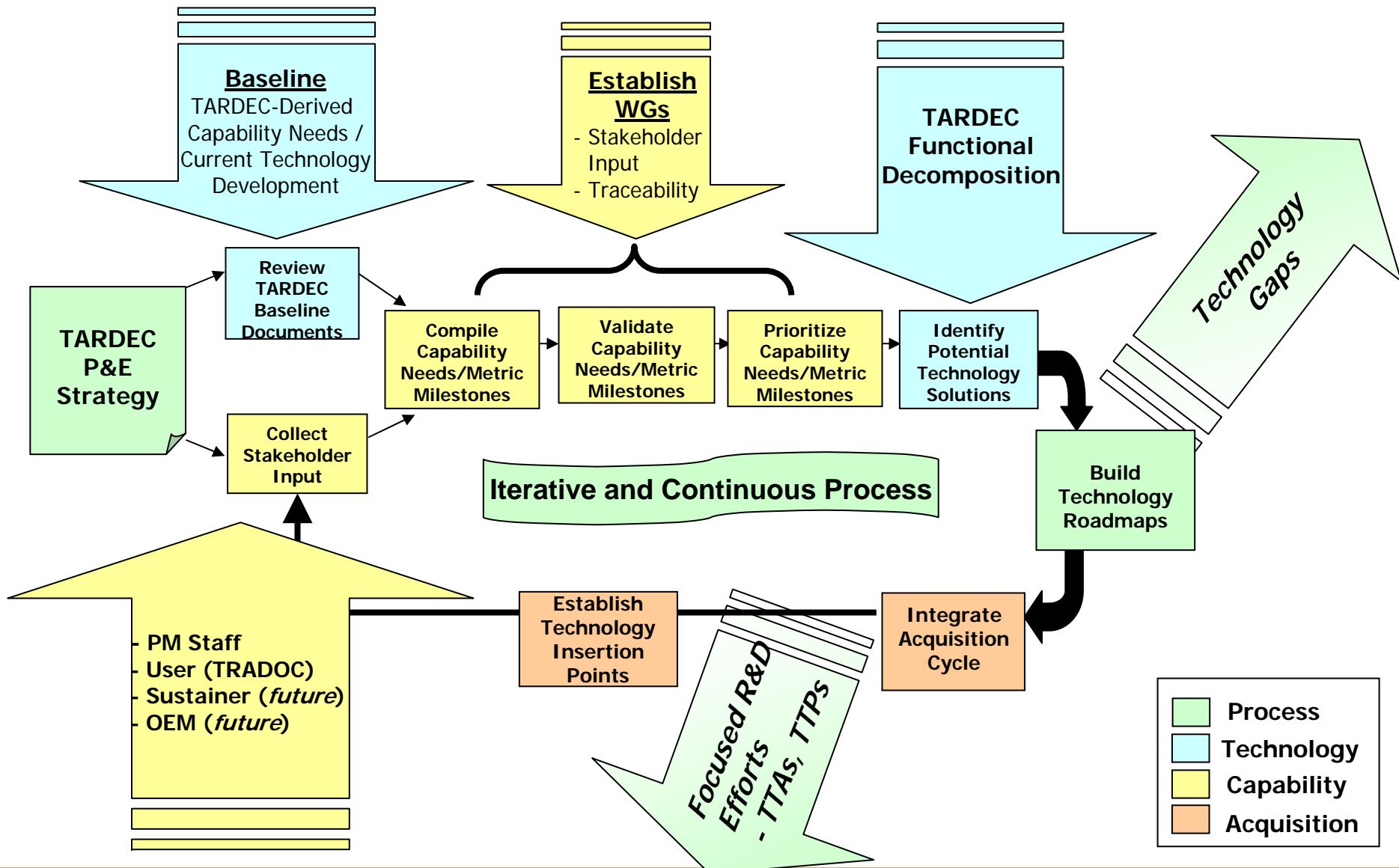
# Successes and Benefits

- n TARDEC is the Army's developer for advanced military ground vehicles and automotive technology. TARDEC advances state-of-the-art technology--making sure the Warfighter receives the best mobile and survivable equipment.
- n This task helps to:
  - Provide alignment with the overall Army plan for transformation
  - Enable TARDEC staff to link their work with PEO/PM needs in an effective manner and provide benefit to the Warfighter while meeting the constraints of budget and schedule.



*TARDEC – Advancing Military Ground Vehicle Systems for the Army*

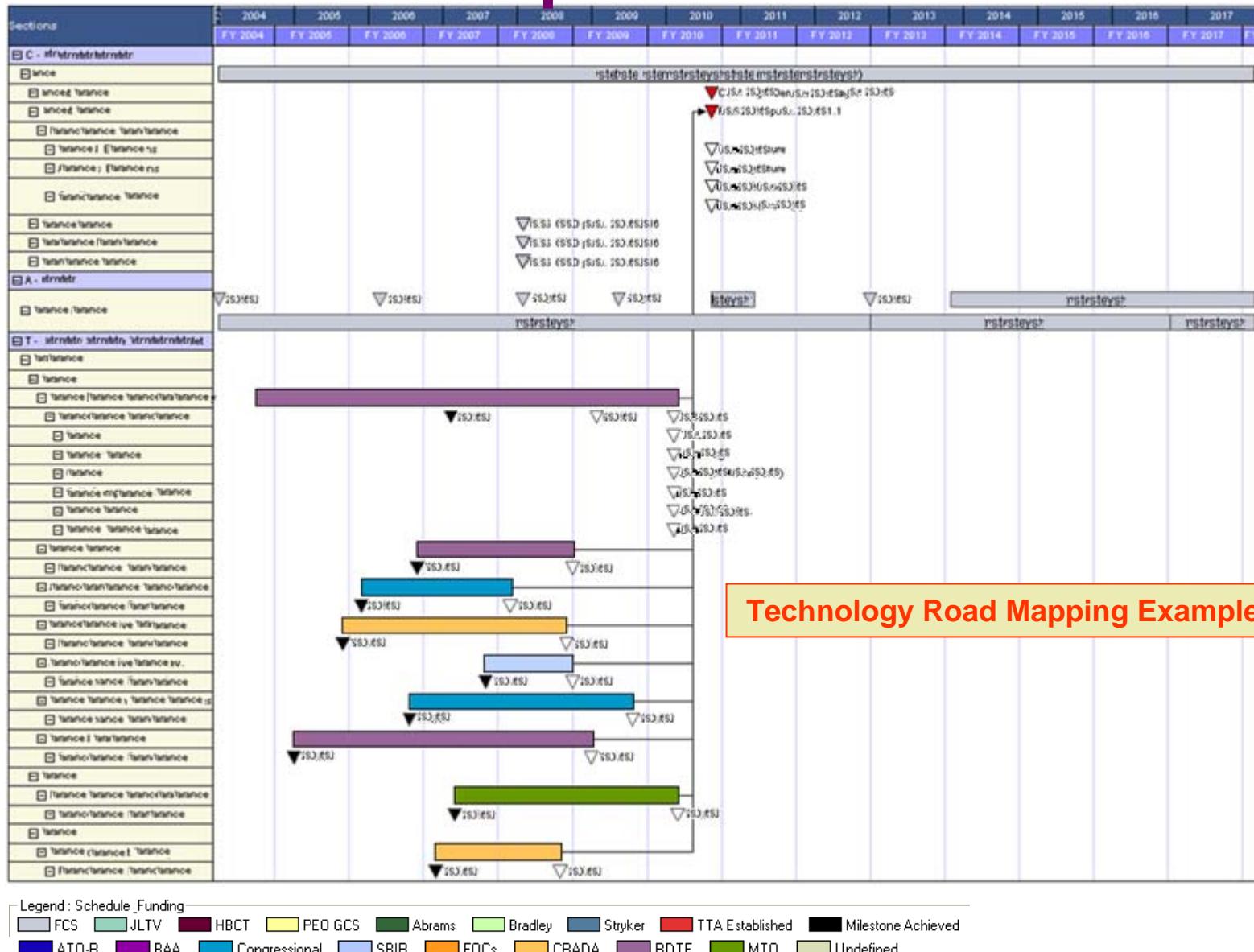
# Technical Approach



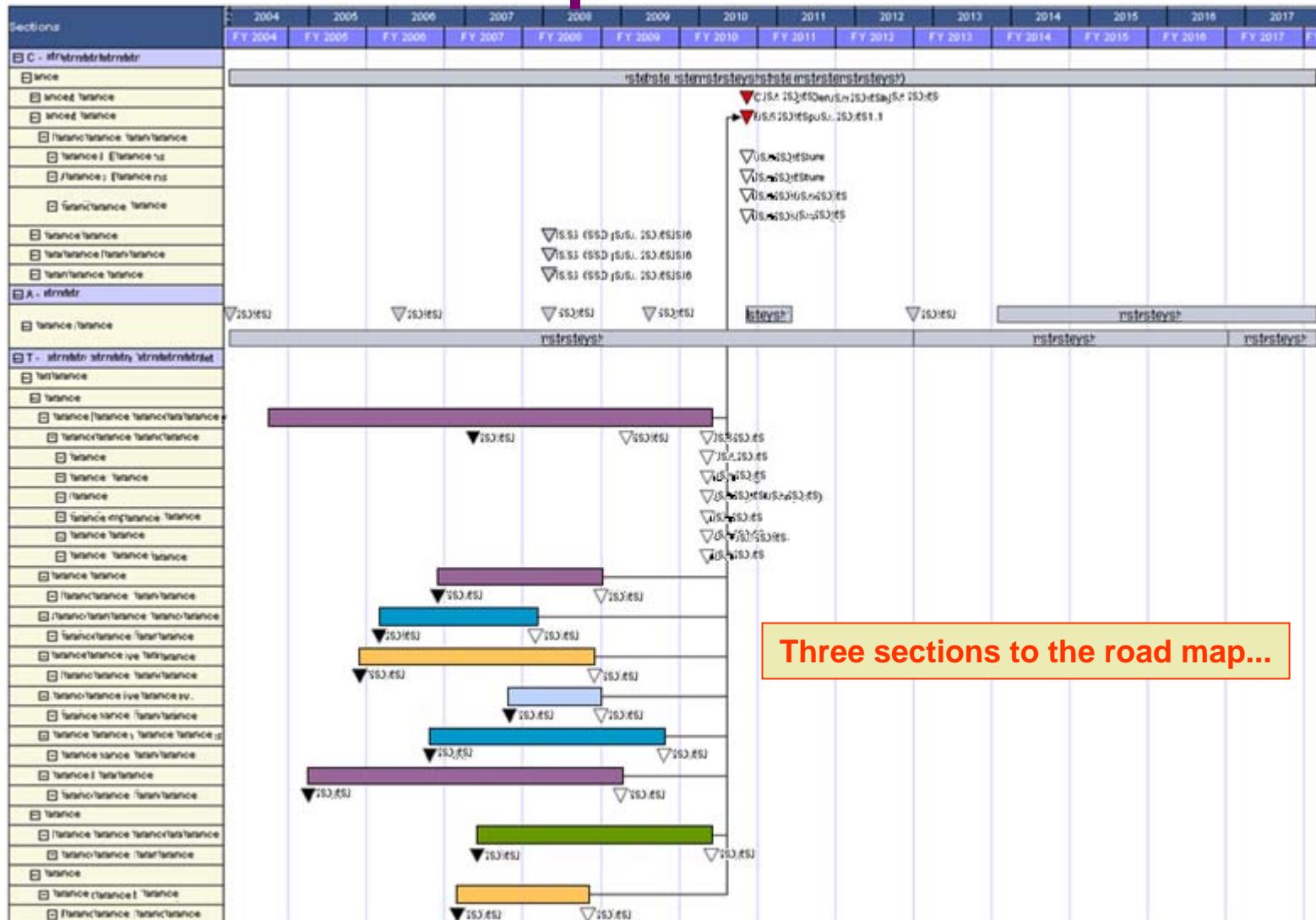
# Accomplishments and Results

- n Established working level relationships with PEO/PMs in the form of Working Groups.
- n Developed Roadmap Architecture that will provide a holistic approach in planning and developing the technical goals necessary to meet the customer (PEO/PM) needs.

# Roadmap Architecture



# Roadmap Architecture

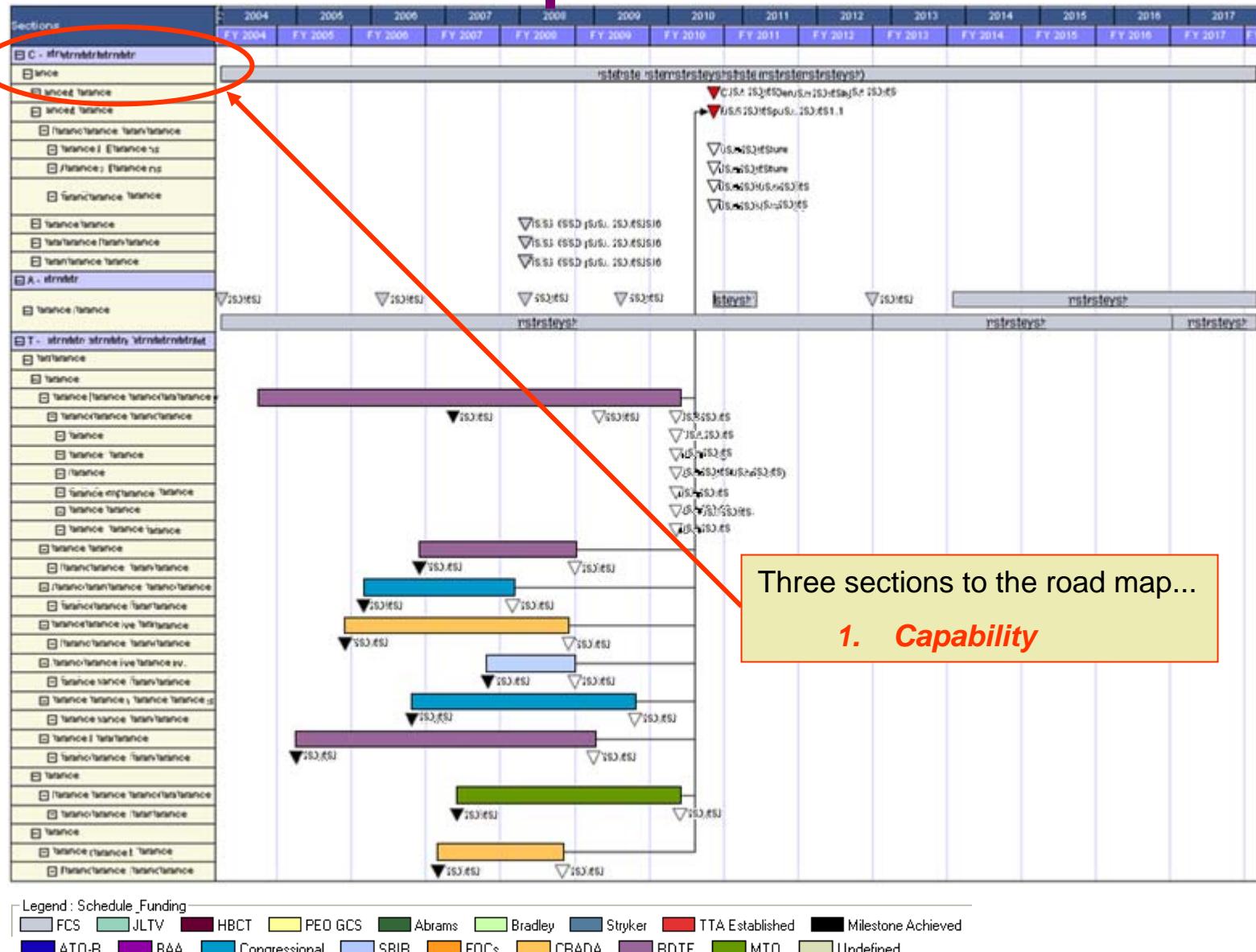


## Three sections to the road map...

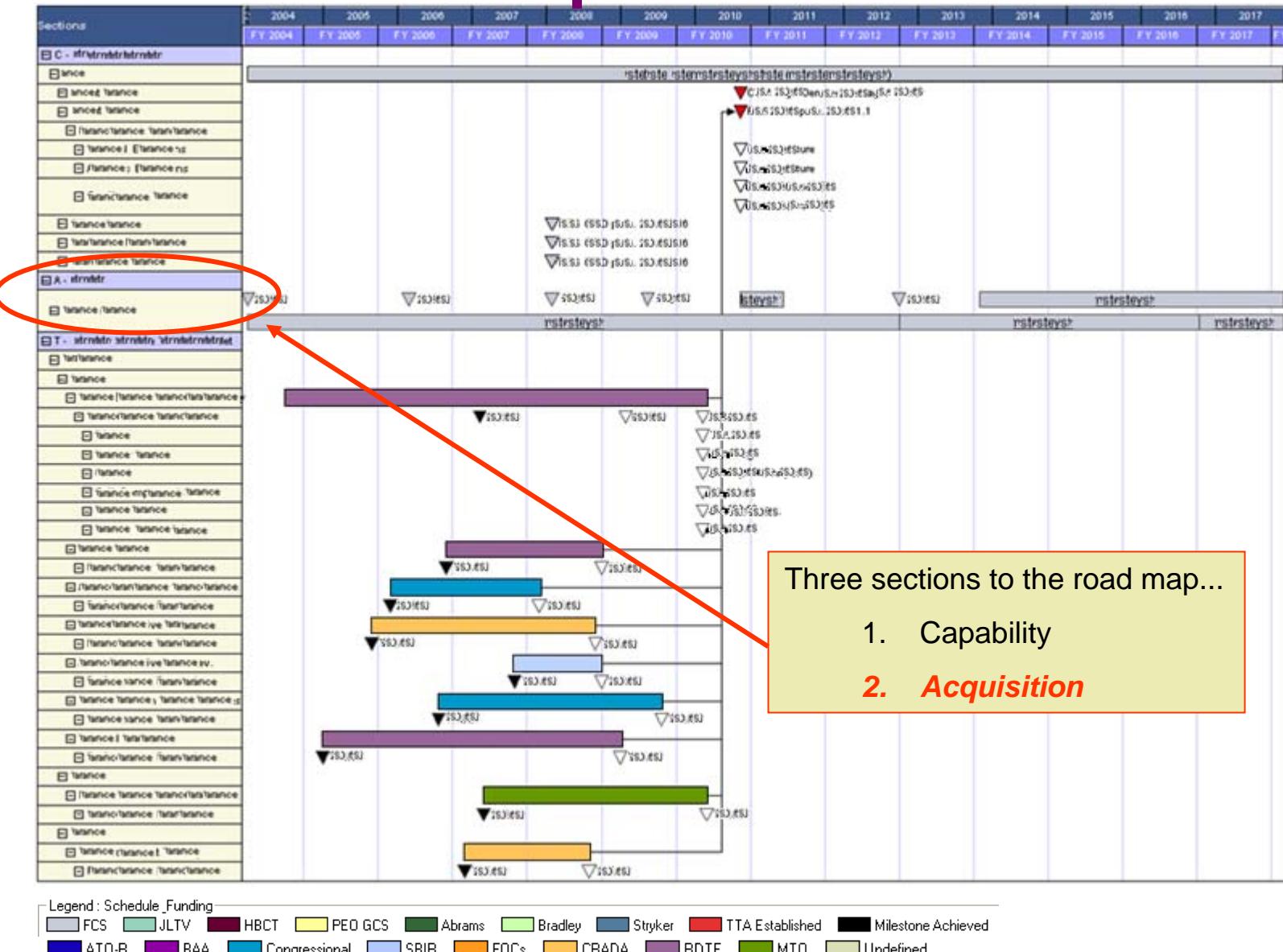
Legend : Schedule Funding



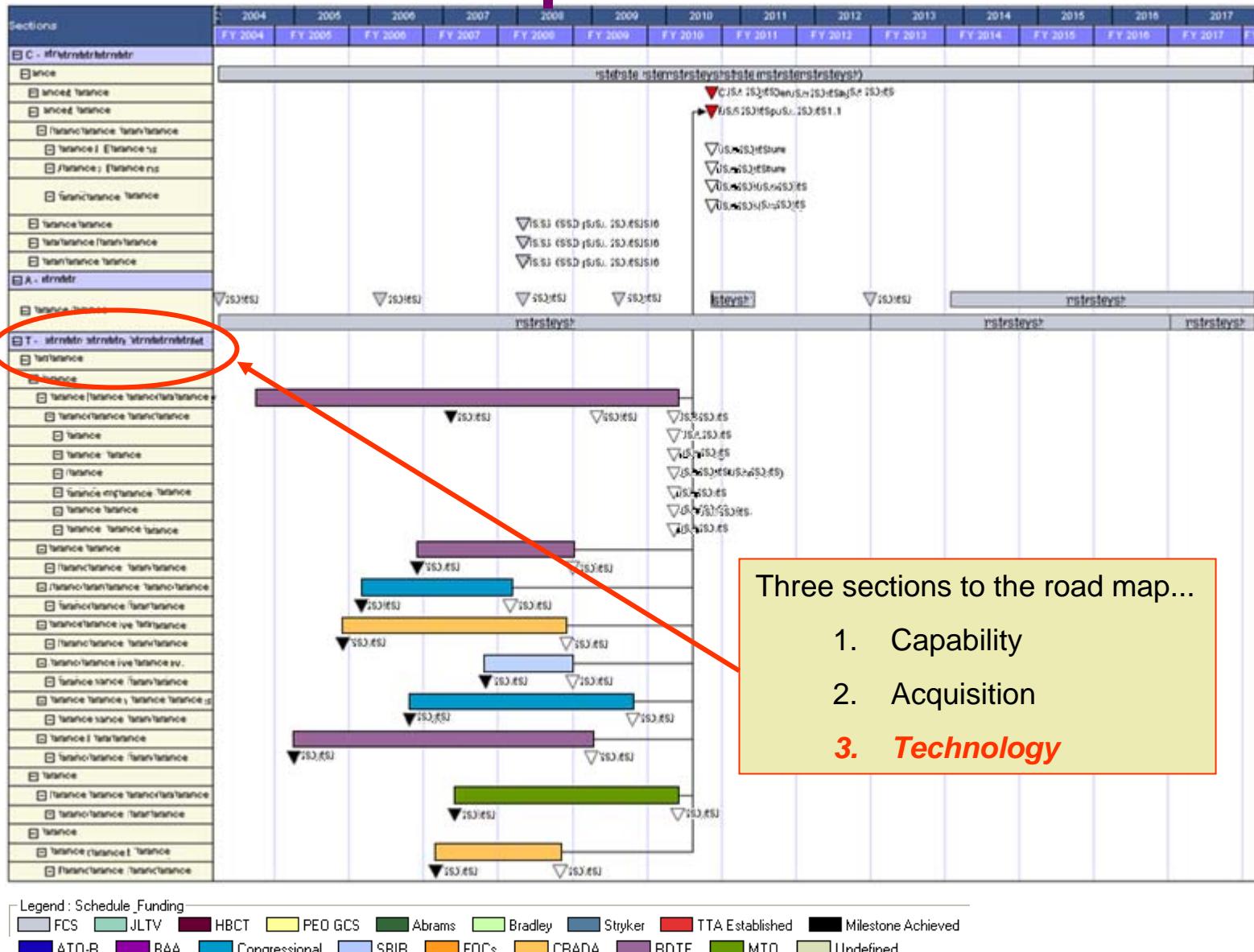
# Roadmap Architecture



# Roadmap Architecture



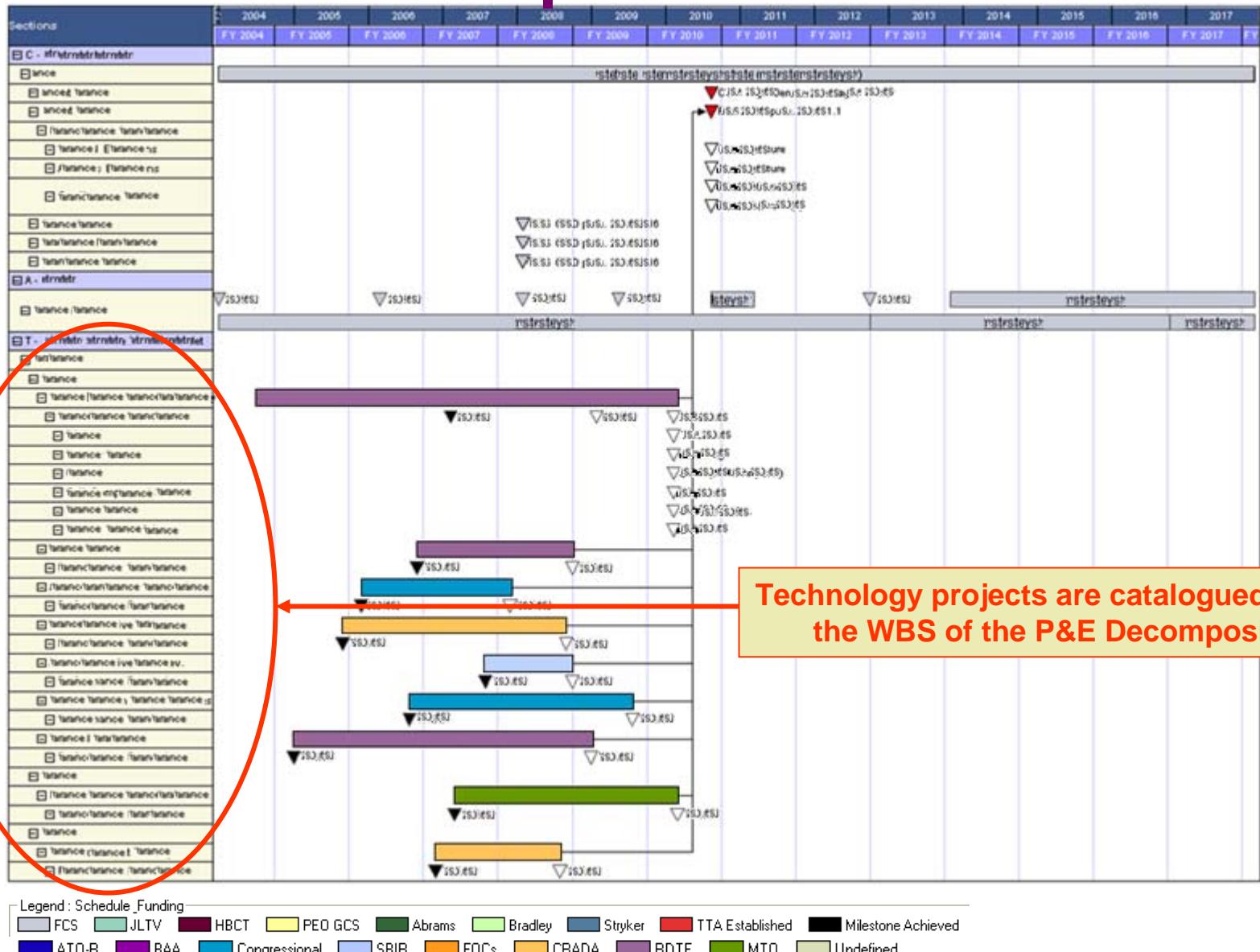
# Roadmap Architecture



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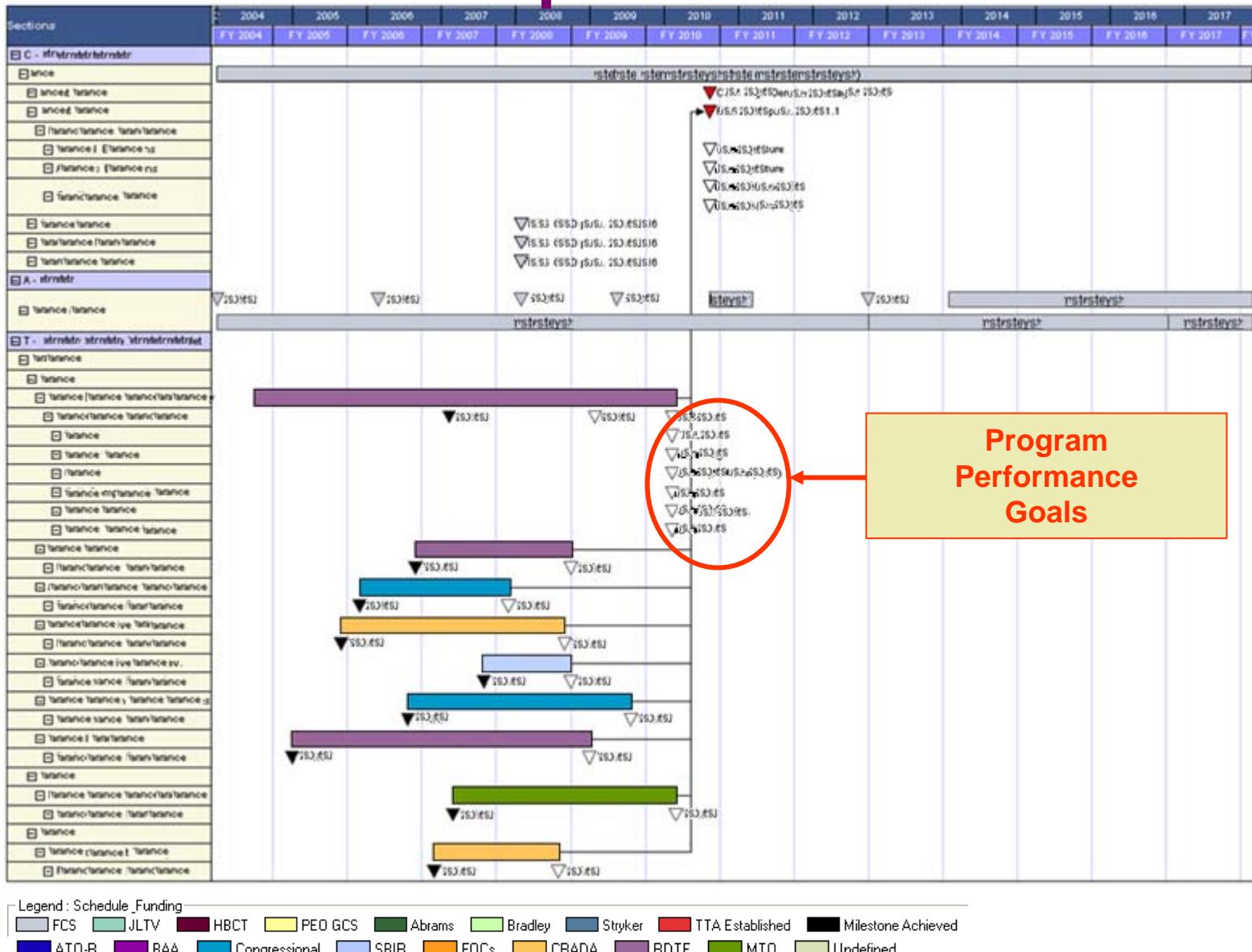
1. Capability
  2. Acquisition
  3. ***Technology***

# Roadmap Architecture

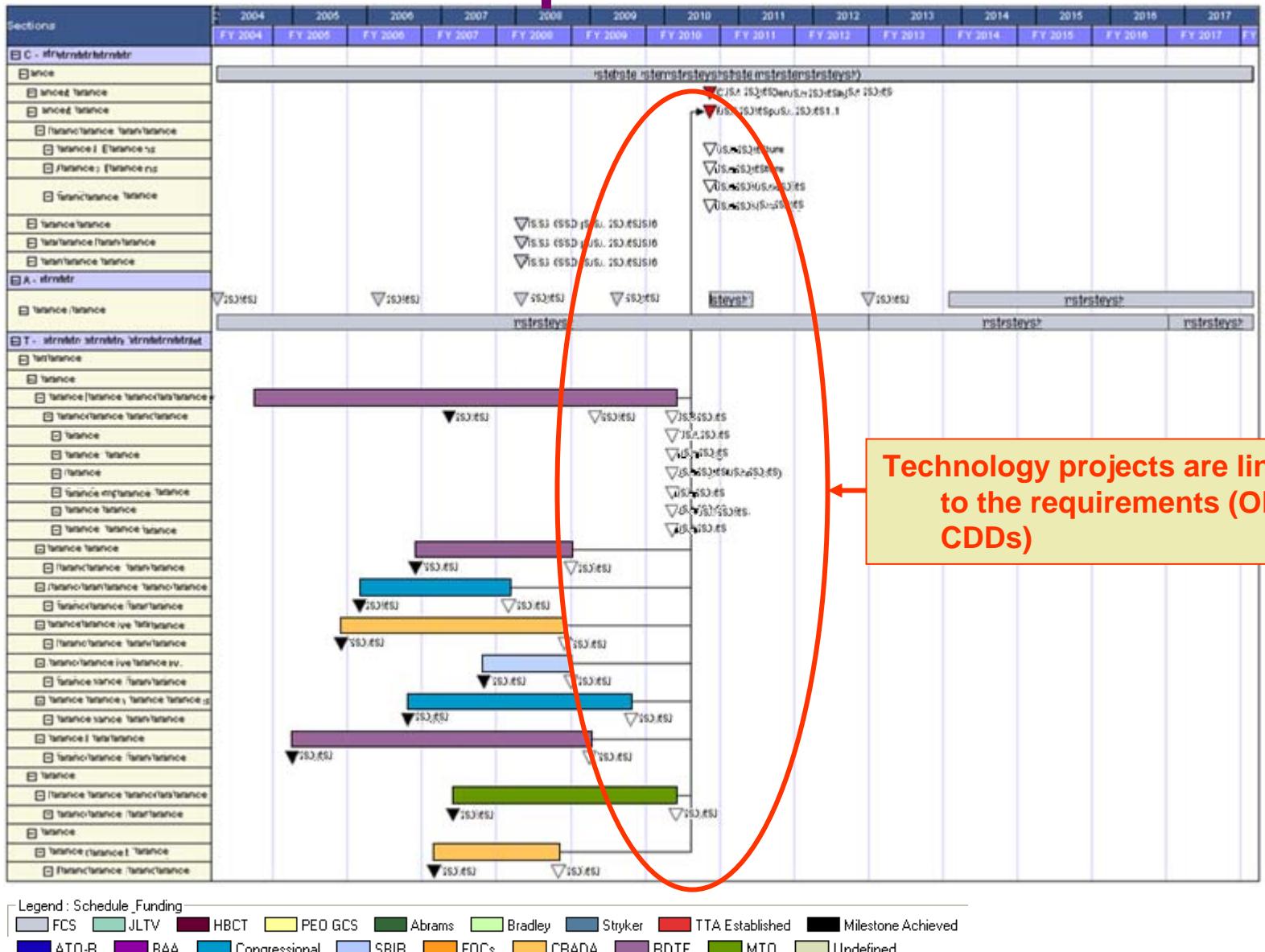


**Technology projects are catalogued per the WBS of the P&E Decomposition**

# Roadmap Architecture

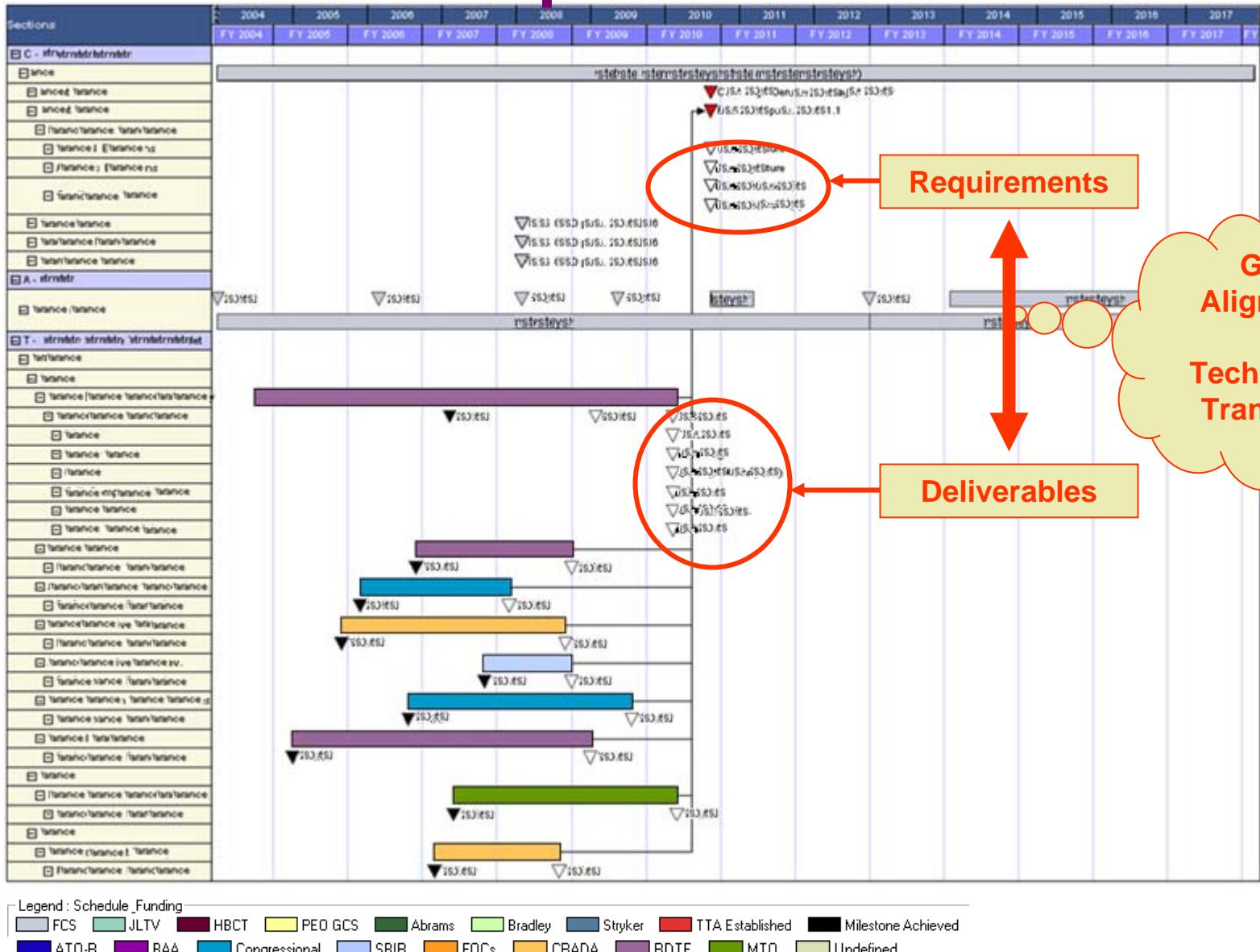


# Roadmap Architecture



**Technology projects are linked to the requirements (ORDs, CDDs)**

# Roadmap Architecture



# Path Forward

- n The data collection process will continue to be refined between TARDEC and TACOM and eventually formalized.
- n The roadmap architecture developed in Vision Strategist will continue to be updated to meet the needs of TARDEC and TACOM.
- n The overall goal will be to transition the relational database to a TARDEC server to be maintained on-site.

# Project Stakeholders

- n The U.S. Army Tank Automotive Research, Development and Engineering Center (TARDEC)
- n TACOM LCMC
- n PM Heavy Brigade Combat Team (HBCT)
  - Abrams Modernization Program
  - Bradley Modernization Program
  - Stryker Brigade Combat Team (SBCT)
- n PM Future Combat System Manned Ground Vehicles (FCS MGV)
- n PM Ground Combat Systems
- n PM Joint Light Tactical Vehicles (JLTV)

# Contact Information

## NDCEE Technical Monitor

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